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Application Number

TRANSMITTAL FORM

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Total Number of Pages in This Submission

Filing Date March 3, 2000 **First Named Inventor** Julie A. Bearcroft Group Art Unit 3738 **Examiner Name** B. Pellegrino HO-P01952US0 Attorney Docket Number

09/517,981

ENCLOSURES (check all that apply)								
Fee Transmittal Form		Assignment Papers (for an Application)		After Allowance Communication to Group				
Fee Attached		Drawing(s)		Appeal Communication to Board of Appeals and Interferences				
X Amendment/Reply		Licensing-related Papers		Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)				
x After Final		Petition		Proprietary Information				
Affidavits/declaration(s)		Petition to Convert to a Provisional Application		Status Letter				
Extension of Time Request		Power of Attorney, Revocation Change of Correspondence Address		X Other Enclosure(s) (please identify below)				
Express Abandonment Request		Terminal Disclaimer		Previously filed Declaration of Ed Margerrison Copy of Notice dated (2/20/03) Postcard				
Information Disclosure Statement		Request for Refund						
Certified Copy of Priority Document(s)		CD, Num	ber of CD(s)	BEREI.				
Response to Missing Parts/ Incomplete Application		Remarks RECEIVED 'APR 1.8.6						
Response to Missing Parts under 37 CFR 1.52 or 1.53		APR 1 8 2003						
		TEC. A.C. OUR CERTER SOLLS						
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT								
Firm or Individual Name	FULBRIGHT & JAWORSKI L.L.P. Melissa L. Sistrunk							
Signature	melina / At							
Date	April 16, 2003							

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Transmittal
I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. ER 147061265US,
in an envelope addressed to: Box Non-Fee Amendment, Commissioner for Patents, Washington, DC 20231, on the date shown below.
Dated: April 16, 2003 Signature: Monica L. Thomas)
Dated: April 16, 2003 Signature: 170700 (Monica L. Thomas)





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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,981	03/03/2000	Julie A. Bearcrost	P01952US0	5566
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Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on <u>27 November 2002</u> . 2a)⊠ This action is FINAL . 2b)□ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.	· DE							
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Examiner Art Unit 3738	APR 1 6 2013 E							
P riod for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Edutations of tomer may be evaluated under the prevalence of 2 CFR 1.156 (e). In no event, however, may a reply be timely filled Education of the prior to the prior by the prior to the reply specified above; the residence of 2 CFR 1.156 (e). In no event, however, may a reply be timely filled Education of the prior to reply will be septiment to the prior to reply will be septiment. See 37 CFR 1.764(b). Status 1) ☑ Responsive to communication (s) filled on 27 November 2002. 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) ☒ Claim(s) 1-16.20-22.26.64.65 and 67-78 is/are pending in the application. 4a) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are allowed. 6) ☒ Claim(s) is/are objected to. 3) ☐ The specification is objected to by the Examiner. 10 ☐ The drawing(s) filled on is/are objected to by the Examiner. 11 ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved. 11 ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved. 12 ☐ The oath or declaration is objected to by the Examiner. 11 ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved. 12 ☐ Certified copies of the priority documents have been received. 2 ☐ Certified copies of the priority documents have been received in Application No. 3 ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached defice action for a laid for foreign priority under 35 U.S.C	Office Action Summary	Examiner	Art Unit					
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Application/Control Number: 09/517,981

Art Unit: 3738

DETAILED ACTION

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1,4,9,20,21,26,64,67,69,70,75-77 are rejected under 35 U.S.C. 102(b) as being anticipated by Black et al. (5676700). Fig. 1 shows a snaped particle **10** having a center portion **C** and at least four tapered extremities **12** projecting from the center portion. It can also be seen in Fig. 1 that the ends of the extremities show a circular cross-sectional configuration. Additionally, as seen in Figs. 1 and 2, the extremities are of the same shape, size and the angles between adjacent extremities in the particle are approximately equal. Black also discloses the particle is made of materials such as ceramic or bioactive glass, col. 4, lines 14-18. Black additionally discloses the shaped particle is used for repair of bone, i.e. in diseased bone, voids in bone, col. 1, lines 30-60. Fig. 4 illustrates an array of shaped particles.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 5, 6,10-13, 22,68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. '700 in view of Chen et al. (6180606). Black is explained supra. However, Black does not disclose the claimed materials for the particles or composite materials. Chen et al. teach that compositions used in periodontal repair are formed of calcium compounds, col. 2, lines 13-25. Polymers such as polylactic acid can

Application/Control Number: 09/517,981

Art Unit: 3738

be used for the matrix and composites can also be formed of polymer/ceramic or glass combinations, col. 3, lines 40, 41, 47-50, 60-65. It would have been obvious to one of ordinary skill in the art at the time of the invention to substitute different ceramics and use calcium phosphate or combinations of materials such as polymer composites as taught by Chen for the particles of Black in order to enhance the osteogenic potential of the composition being used.

Claims 5-8,71,72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. '700 in view of Barralet (Biomaterials, 1993). Black is explained supra. However, Black does not disclose the ceramic as gypsum or the array to have a porosity between 40-80%. Barralet teaches that calcium sulfate or gypsum having a porosity of 60%, see Abstract. It would have been obvious to one of ordinary skill in the art to use calcium sulfate as taught by Barralet for the shaped particles of Black in order to provide a well accepted bone filler with a good porosity for bone ingrowth.

Claims 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. '700 in view of Kondo et al. (JP 171546). Black is explained supra. However, Black does not disclose the particle diameter in the range of 6mm. Kondo et al. teach forming particles with protruberances or extremities on the surface having a diameter of 8mm, page 3, lines 9, 10. Kondo also teaches that the particles had excellent affinity for tissue, page 2, lines 9-11. It would have been obvious to one of ordinary skill in the art to use the teaching of Kondo to use diameters "about" 6 to 8mm for the particle of Black in order to encourage greater tissue ingrowth and improve the affinity for tissue growth.

Application/Control Number: 09/517,981

Art Unit: 3738

Claims 2,3, 73,74,78 are rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. '700 in view of Sheppard et al. (WO 94/08912). Black is explained supra. However, Black does not disclose the shaped particle having exactly six extremities. Sheppard (Fig. 2) shows the particle with six extremities, which inherently has bilateral symmetry and arms at right angles. Sheppard also teaches that a great variety of properties can be obtained by altering the interface properties in order to improve adhesiveness of the composite form, page 4, lines 1-4. Additionally, Sheppard teaches that the structure of shaped particles results in a consistent, reticulatable form, page 7, lines 7,8. It would have been obvious to one of ordinary skill in the art to use additional extremities, such as six taught by Sheppard et al. in the shaped particle of Black in order to improve the interlocking of the extremities.

Claims 65 is rejected under 35 U.S.C. 103(a) as being unpatentable over Black et al. '700. Black is explained supra. However, Black does not disclose resorbable materials for the particles. It would have been an obvious matter of design choice to have a resorbable material for the shaped particle, since applicant has not disclosed that this material for the particle provides any advantage, or is used for any particular purpose, or solves any stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with either the ceramic or bioactive glass as taught by Black or the resorbable material of claim 65 because both materials are biocompatible and remain in the body of a sufficient time to permit bone ingrowth and provide the ability to fill the bone void.

Art Unit: 3738

Respons to Arguments

Applicant's arguments and declaration with respect to claims 1,26 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Pellegrino whose telephone number is (703) 306-5899. The examiner can normally be reached on Monday-Thursday from 8:30am to 6pm. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott, can be reached at (703) 308-2111. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-2708.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

Brian E. Pellegrino TC 3700, AU 3738

Paul Prebilic Primary Examiner